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Hemp Seed – Delicious and Nutritious!



Hemp is one of the oldest agricultural crops grown by man. It's grown for its seed and fiber. The seed is one of the most perfectly balanced foods we can eat. Hemp is a food, not a supplement. The long, strong fiber from the hemp plant is also outstanding. It's estimated that over 25,000 products can be made from the hemp plant.

HEMP NUTRITION

The nutritional composition of hemp seed is quite unique and exceptional! Whole hemp seeds contain approximately 36% dietary fat, 26% high quality and digestible protein and 31% carbohydrates comprised mainly of dietary fiber, in addition to an interesting array of vitamins and minerals.

Hemp seed's dietary fat is primarily composed of polyunsaturated fats or the "good fats." Hemp seed oil's fatty acid profile is comprised of 80% polyunsaturated fats, 11% monounsaturated fats, 9% saturated fats and zero trans fats. Health organizations (1.) have recommended that fat intake should make up 20% to 35% of your total calories. They further recommend that most of your fat intake should come from polyunsaturated and monounsaturated fats, while limiting the intake of trans and saturated fats. Hemp seed dietary fat meets this

Hemp Seed Oil contains Zero trans fat and is cholesterol-free.

Hemp Seed Oil provides one of the highest concentrations of polyunsaturated fatty acids (PUFAs) categorized as Omega-6 and Omega-3 Essential Fatty Acids (EFAs) in an ideal 3:1 ratio. EFAs are vital for good health but cannot be manufactured by our body, and so they must be present in our diet through the foods we eat. EFAs are both important components of cell membranes and are precursors for substances in the body involved with regulating blood pressure and inflammatory responses.

Hemp Seed Oil also uniquely contains naturally-occurring Gamma-Linolenic Acid (GLA) and Stearidonic Acid (SDA). GLA and SDA are direct metabolites of Omega-6 and Omega-3 EFAs, respectively. These two metabolites are important for regulating inflammation and auto-immune functions in our bodies.

Hemp seed is a source of high quality, plant based protein and is vegan. Analysis of hemp food proteins has resulted in a Protein Rating of 40 (2.) and above, meaning that the protein content in hemp foods is not only present in high amounts, but also of a high quality!

Hemp protein is free of trypsin-inhibitors. Trypsin is a key enzyme that breaks down peptide bonds in proteins, enabling protein uptake in the human body. Hemp protein contains no trypsin inhibitors, such as those found in other protein rich sources like soy that can cause flatulence and gas. Hemp seed and foods not only contain a high quality protein, available in high amounts, but they are also free of inhibitors that impede protein digestion making hemp highly digestible.

Hemp protein is very high in dietary fiber. Fiber helps to keep the digestive system healthy and functioning properly. The dietary fiber found in hemp is primarily composed of insoluble fiber, which helps with digestion and maintaining regular bowel movements.

Hemp is naturally gluten and lactose free. Gluten is a type of protein found in most grains commonly used in cereals and baked goods. Most people allergic to gluten have a similar reaction to lactose and soy. Hemp foods naturally have zero gluten and lactose content (3.).

(1.) Health Organizations include WHO, FAO, Canada Health and US Food and Drug Administration

(2.) Per Health Canada Regulations, Protein Rating = Protein in a Reasonable Daily Intake x Protein Efficiency Ratio (PER); Reasonable Daily Intake for hemp products = 64 grams.

(3.) Hemp seed is naturally gluten-free. However, cross-contamination can occur at the field level during handling, transportation and storage. CMJ supplier of hemp food products conducts regular gluten testing on seed lots to ensure that gluten content is <20 ppm, which is the acceptable threshold by both the World Health Organization (WHO) and Health Canada for a gluten-free claim.

Hemp: Full of Vitamins and Minerals!

Our bodies need various vitamins and minerals to stay healthy. Each vitamin or mineral does a specific job in the body. Some do better working in teams to keep body cells healthy. Here are some of the vitamins and minerals present in hemp foods and a brief descriptions of their health benefits and function.

- Good source of folate (Vitamin B9) Folate is essential to numerous bodily functions including the production of healthy red blood cells and cells that line the digestive tract. It is especially important during periods of rapid cell division and growth since Folate is necessary for the creation and maintenance of new cells, and for DNA and RNA synthesis. Folate is also essential for the prevention of neural tube defects of a fetus during the first few weeks of pregnancy.
- Good source of thiamine (Vitamin B1) Thiamine plays a critical role in the energy metabolism of all cells. Thiamine helps to converts carbohydrates and amino acids into energy and is essential for proper functioning of the heart, muscles and nervous system.
- Contains riboflavin (Vitamin B2) Riboflavin is necessary for energy metabolism in our bodies. It is also essential for body growth, reproduction, red cell production and supports normal vision and skin health.
- Contains niacin (Vitamin B3) Niacin participates in the energy metabolism of all cells in the body. Aids in the functioning of the digestive system, skin, and nerves; conversion of food to energy.
- Good source of Vitamin B6 which aids in the production of antibodies in the immune system, helps maintain normal nerve function and is required for the metabolism of amino acids and fatty acids. Vitamin B6 helps synthesize hemoglobin (for red blood cells) and neurotransmitters (the communication molecules of the brain). Vitamin B6 helps regulate blood glucose and is critical to the development of the brain and nervous system of a fetus.
- Source of Potassium that aids the body's growth and maintenance. Potassium helps maintain normal water balance between the cells and body fluids, electrolyte balance, cell integrity and is critical to maintaining a heartbeat, proper heart function, the transmission of nerve impulses and contraction of muscles.
- Very high in Phosphorus that together with calcium is vital for formation of bone, teeth and nerve cells. Phosphorus helps to maintain the acid-base balance of cellular fluids and is part of DNA and RNA of every cell and thus essential for growth and renewal of tissues. Phosphorus assists in energy metabolism and forms phospholipids within the cell membrane.
- Rich in Magnesium that assists absorption of calcium and potassium in our bodies. Magnesium is also involved in bone mineralization, activating B vitamins, acting as a nerve & muscle relaxant and providing blood clotting. Magnesium is also responsible for the release and use of energy from nutrients.
- Excellent source of Copper, which is required by our bodies for absorption, storage and metabolism of iron, the formation of hemoglobin (in red blood cells) and collagen (connective tissue). Copper helps supply oxygen to the body and is required for brain development and nerve cell communication.
- Excellent source of Iron that is a major component of our hemoglobin and myoglobin, both of which are responsible for carrying oxygen in the blood and to our muscles. Iron is required in our bodies to make new cells, amino acids, hormones and neurotransmitters. Iron is also important for enzymatic activity in energy-yielding pathways and is involved in producing ATP (adenosine triphosphate) the body's energy source.
- Excellent source of Zinc that assists enzyme activity in all our cells. Zinc also aids protein, fat and carbohydrate metabolism, supports the immune system, growth and fertility, wound healing, healthy skin, nails and eyes.



A STORY ABOUT HEMP AND ITS MANN WE did not do anything wrong. For "Grandfather Hemp, I don't understand; why have we been ostracized from farm fields in the United States? We did not do anything wrong. For centuries, our older kin folks provided so much for the United States. At the time it was a requirement for farmers to grow hemp. Even this past century, during World War II we headlined a government campaign titled: "Hemp for Victory." What happened?" asked Cousin Mary Jane.

"Well, Cousin Mary Jane", replied Grandfather Hemp. "Some of the problem started with the Marihuana Tax Act of 1937. Confusion, myths, dirty politics and some large corporations all contributed to our denies in being able to be cultivated by U.S. farmers. It is a real shame, but the demand for hemp in the United States is growing again. However, currently, if companies or consumers want to engage in using the raw materials demand for hemp in the United States is growing again. However, currently, if companies or consumers want to engage in using the raw materials or foods from hemp, it must be imported from ither countries. U.S. farmers cannot grow the crop due to outdated federal policies which confuse or foods from hemp, it must be imported from with the THC variety of carnabis. It's all quite silly really."

"Bur Grandfather Hemp," interrupted Cousin Mary Jane." I thought the world, along with the United States was getting wiser to being more green."

"Yes, but not enough," Grandfather Hemp responded. "Hemp is the greenest crop that can be cultivated and the contents of the hemp plant can be useful used to provide countless green products. A field of hemp within a few months can provide the natural resources for so many things that are useful and strong, yet biodegradable that it is truly increasible. Chemicals and pesticides are not needed to grow hemp and it naturally provides nutrients back to the soil so farm fields are not stripped after it has been harvested. Further, not only can hemp provide the world with a viable green energy back to the soil so farm fields are not stripped after plant that can provide the nutritional value that comes from the hemp seed.

Hemp seeds contain all the essential antho acids and essential fatty acids necessary to maintain healthy human life.

It is very hard for me to understand why the food from the hemp seed is not utilized more in his feed stanking children around the world."

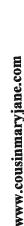
"You can help by telling anyone who will listen about us. Every part of the henry plant can be used for different products. People need to know and understand all we can do. Encourage people to join Michigan Industrial Henry Education and Marketing Project, aka MIHEMP. They are a

non-profit organization with a dedicated grap of people who are working to expand here as a natural resource for industrial and private enterprise here in Michigan. They are working entiting our legislators to act so being can once again be grown in Michigan. Their mission is to educate the public and state government officials about straustrial Hemp and try to clear up the myths," continued Grandfather Hemp.

"It is estimated that over \$360 million in hemp retail sales is occurring in the United States today, so why are we importing? The United States is the only industrial country that virtually prohibits its farmers from growing this greet, high cash yielding crop. Michigan's economy can use this the only industrial country that wirtually prohibits its farmers from growing this greet, high cash yielding crop. Michigan's economy can use this industry and Michigan could be a world leader with the production of hemp products," claimed Grandfather Hemp. "But it takes a lot of support. We need our government to act and we need people like you to help us to get the attention we need so we are not ignored any longer."

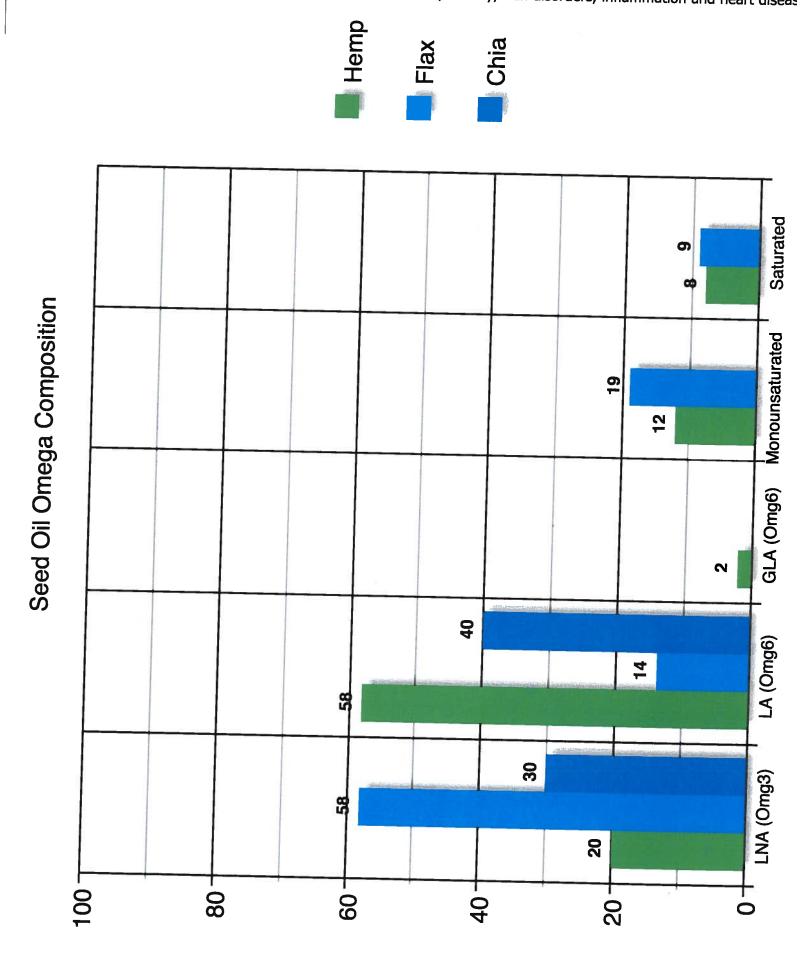


passing laws which cannot be enforced. It is an open secret that the dangerous increase of crime in this country is closely connected with this." For nothing is more destructive of respect for the government and the laws of the land than "The prestige of government has undoubtedly been lowered considerably by the prohibition law.



www.cousinmaryjane.com

Omegas are Essential Fatty Acids (EFAs). Our bodies do not produce EFAs, yet they are necessary for good health Omegas are vital in body and brain function; and the immune system. Lack of sufficient Omegas can be ver damaging to our bodies and can lead to neurological conditions, obesity, skin disorders, inflammation and heart diseas



am bohydrates 4 •	Dietary Fiber	rbohydrate	Sodium Less than	Cholesterol Less than	Saturated Fat Less than	Total Fat Less than	Calories:		calorie diet. Your daily val	* Dercent Daily Values are based on a 2 000	Copper	Zinc	Magnesium	Phosphorus	Folate	Vitamin B6	Niacin	Riboflavin	Thiamine	Vitamin E	Iron	Calcium	Vitamin C	Vitamin A	Protein 119	1	OD I		Total Carbohydrate 149	Potassium 280mg	Sodium Omg		Monounsaturated Fat Og	Omega-3 0.6g		Saturated Fat 0g	Total Fat 3g		Calories 130	Amount Per Serving	Per 32g serving (4 tbsp)	Nutrition Facts
Protein 4	25 g			han 300 mg			s: 2,000	calorie needs:	Your daily values may be higher or	hased on a 2.0																								20			č	% Daily	Calories from Fat 25			
	30 g	375 g	2,400 mg	300 mg	25 g	90 g	2,500		her or	210%	30%	15%	40%	30%	10%	15%	8%	6%	20%	0%	25%	4%	0%	0%				53%	5%	8%	0%	0%				0%	5%	Daily Value*	Fat 25			

Calories per gram Fat 9 • Carbohydrates 4 • Protein	Dietary Fiber	Total carbohydrate	Sodium Less than	Cholesterol Less than	Saturated Fat Less than		Calories:		calorie diet. Your daily values may be higher or	<u> </u>	Manganese	Copper	Zinc	Magnesium	Folate	Vitamin B6	Niacin	Riboflavin	Thiamine	Vitamin E	Iron	Calcium	Vitamin C	Vitamin A		Insoluble Fiber 14g	യ	I	Total Carbohydrate 169	Potassium 380mg	Sodium 140ma	9	Monoinsaturated Eat 20	Omega-b 10g	Polyunsaturated Fat 14g	Trans Fat 0g	Saturated Fat 1.5g	Total Fat 18g			Amount Per Serving	Per 50g serving (5 tbsp)	Nutrition Facts
ain 4	25 g	300 g	2,400 mg	300 mg	20 g	65 g	2,000	rie needs:	may be hig	ed on a 2,0																											,		% Daily	Tom M			
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	n 4	Carbohydrates 4 • Protein	Fat 9 • Carboh
			Calories per gram
30 g	25 g		Dietary Fiber
375 g	300 g		Total carbohydrate
2,400 mg	2,400 mg	Less than	Sodium
300 mg	300 mg	Less than	Cholesterol
25 g	20 g	Less than	Saturated Fat
80 g	65 g	Less than	Total Fat
2,500	2,000	Calories:	
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25%			Copper
20%			Zinc
20%			Magnesium
50%			Phosphorus
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0%			Niacin
4%			Riboflavin
0/CZ			Thiamine
270			Vitamin E
20%			Iron
7,900			Calcium
200			Vitamin C
0%			Vitamin A
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4%			Dietary Fiber
0%		rate 1g	Total Carbohydrate
10%		mg	Potassium 360mg
0%			Sodium Omg
0%			Cholesterol 0mg
		ed Fat 1.5g	Monounsaturated
		ı	Omega-6 9g
		d Fat 12g	Polyunsaturated Fat
			Trans Fat 0g
5%		מׁ	의
23%			Total Fat 15q
Value*	% Daily Value*		
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			Amount Per Serving
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